

Appl. No. 10/694,978
Amdt. dated June 2, 2006
Reply to Office Action of 3/2/2006

This listing of claims will replace all prior versions, and listings, of claims in our amendments or responses to Office actions.

Listing of Claims:

Claims 1-34. (Cancelled).

Claim 35. (New) An isolated or purified binding compound comprising an antigen binding site of an antibody that specifically binds to a polypeptide having the amino acid sequence of SEQ ID NO: 2 at an epitope comprising at least one sequence selected from the group consisting of:

FVHTSR (amino acids 45-50, SEQ ID NO: 2);
KKFSIHD (amino acids 58-64, SEQ ID NO: 2);
VLVLDS (amino acids 69-74, SEQ ID NO: 2);
NLIAVP (amino acids 76-81, SEQ ID NO: 2);
SLILLGV (amino acids 107-113, SEQ ID NO: 2); and
SRNMLES (amino acids 163-169, SEQ ID NO: 2).

Claim 36. (New) The binding compound of Claim 35, wherein the binding site of the antibody specifically binds to a polypeptide having the amino acid sequence of SEQ ID NO: 2 at an epitope comprising at least one sequence selected from the group consisting of:

KKFSIHD (amino acids 58-64, SEQ ID NO: 2);
VLVLDS (amino acids 69-74, SEQ ID NO: 2); and
NLIAVP (amino acids 76-81, SEQ ID NO: 2).

Claim 37. (New) An isolated or purified binding compound comprising an antigen binding site of an antibody that specifically binds to a polypeptide having the amino acid sequence of SEQ ID NO: 2 at an epitope comprising at least one sequence selected from the group consisting of:

SRKVKSLNPKKF (amino acids 49-60, SEQ ID NO: 2);

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HDQDHKVLVLDS (amino acids 63-74, SEQ ID NO: 2);
NLIAVPDKNYIR (amino acids 76-87, SEQ ID NO: 2); and
FYRAQVGSRNML (amino acids 156-167, SEQ ID NO: 2).

Claim 38. (New) The binding compound of Claim 37, wherein the binding site of the antibody specifically binds to a polypeptide having the amino acid sequence of SEQ ID NO: 2 at an epitope comprising at least one sequence selected from the group consisting of:

SRKVKSLNPKKF (amino acids 49-60, SEQ ID NO: 2);
HDQDHKVLVLDS (amino acids 63-74, SEQ ID NO: 2); and
NLIAVPDKNYIR (amino acids 76-87, SEQ ID NO: 2).

Claim 39. (New) The binding compound of Claim 35, wherein the binding compound is a humanized antibody.

Claim 40. (New) The binding compound of Claim 37, wherein the binding compound is a humanized antibody.

Claim 41. (New) The binding compound of Claim 35, wherein the binding compound is an Fv, Fab, or F(ab')₂ fragment.

Claim 42. (New) The binding compound of Claim 37, wherein the binding compound is an Fv, Fab, or F(ab')₂ fragment.

Claim 43. (New) The binding compound of Claim 35, wherein the binding compound is glycosylated.

Claim 44. (New) The binding compound of Claims 37, wherein the binding compound is glycosylated.

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Claim 45. (New) A binding composition comprising the binding compound of Claim 35, and a carrier, wherein the carrier is formulated for oral, rectal, nasal, topical, parenteral, subcutaneous, intramuscular, intravenous, or intradermal administration.

Claim 46. (New) A binding composition comprising the binding compound of Claim 37, and a carrier, wherein the carrier is formulated for oral, rectal, nasal, topical, parenteral, subcutaneous, intramuscular, intravenous, or intradermal administration.

Claim 47. (New) A kit comprising:

- a) the binding compound of Claim 35;
- b) a compartment;
- b) instructions for use; and
- c) the polypeptide having the amino acid sequence of SEQ ID NO: 2.

Claim 48. (New) A kit comprising:

- a) the binding compound of Claim 37;
- b) a compartment;
- b) instructions for use; and
- c) the polypeptide having the amino acid sequence of SEQ ID NO: 2.

Claim 49. (New) A method of making the binding compound of Claim 35, comprising immunizing an animal with an immunogenic amount of a polypeptide having the amino acid sequence of SEQ ID NO: 2, or an antigenic fragment thereof.

Claim 50. (New) A method of making the binding compound of Claim 37, comprising immunizing an animal with an immunogenic amount of a polypeptide having the amino acid sequence of SEQ ID NO: 2, or an antigenic fragment thereof.

Claim 51. (New) A method of producing an antigen:antibody complex, comprising contacting a polypeptide having the amino acid sequence of SEQ ID NO: 2 with the antibody of Claim 35 and allowing a complex to form.

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Claim 52. (New) A method of producing an antigen:antibody complex, comprising contacting a polypeptide having the amino acid sequence of SEQ ID NO: 2 with the antibody of Claim 37 and allowing a complex to form.

Claim 53. (New) An isolated or purified binding compound comprising an antigen binding site of an antibody that specifically binds to a polypeptide having the amino acid sequence of SEQ ID NO: 2 at an epitope found within amino acids 49-89 of SEQ ID NO: 2.